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**State of Utah**  
**DEPARTMENT OF NATURAL RESOURCES**  
**Division of Oil, Gas & Mining**

MICHAEL R. STYLER  
Executive Director  
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Division Director

**Inspection Report**  
**Minerals Regulatory Program**  
Report Date: August 8, 2005

Supervisor 10224

**Mine Name:** Little Cottonwood Granite Quarry  
**Operator Name:** Corporation of the Presiding Bishop

**Permit number:** S/035/017  
**Inspection Date:** July 5, 2005  
**Time:** 4:20-4:50 PM

**Inspector(s):** Paul Baker  
**Other Participants:** None  
**Mine Status:** Reclaimed

**Weather:** Sunny, 90's

Elements of Inspection	Evaluated	Comment	Enforcement
1. Permits, Revisions, Transfer, Bonds	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Public Safety (shafts, adits, trash, signs, highwalls)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Protection of Drainages / Erosion Control	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Deleterious Material	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Roads (maintenance, surfacing, dust control, safety)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Concurrent Reclamation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Backfilling/Grading (trenches, pits, roads, highwalls, shafts, drill holes)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Water Impoundments	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Soils	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Revegetation	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
11. Air Quality	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Purpose of Inspection:**

I wanted to measure vegetation cover and to verify that the fence, straw bales, twine, and silt fences had been removed.

**Inspection Summary:**

2. Public Safety (shafts, adits, trash, signs, highwalls)

The silt fences, straw bales, twine, and the fence next to the highway have all been removed. The area next to the highway that had been fenced off is being used as a parking area (Photo 1).

There are trails going up through the disturbed area, but it appears people are staying on the trails rather than damaging vegetation on the entire area (lower right portion of Photo 2).

10. Revegetation

I used ocular estimation techniques to measure vegetation cover on the reclaimed area and on adjacent undisturbed areas. I estimated perennial vegetation cover in the reclaimed area to be 37 percent.

I could not find an adjacent undisturbed area that I thought would compare with the reclaimed area. The undisturbed areas had either mature trees with nearly 100 percent cover or rock outcrop with almost no cover. Since it has been only four years since seeding was done in the reclaimed area, it would not be right to compare this with mature trees.

Inspection Date: July 5, 2005; Report Date: August 8, 2005  
Page 2 of 2  
S/035/017

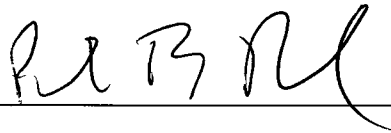
For these reasons, I decided to measure understory cover as a comparison to the reclaimed area. The mean value I obtained was 28 percent.

The vegetation has progressed a lot since I last visited the site. Although the woody plants are not yet full grown, they are already providing a lot of cover. Grasses and broadleaf forbs cover most of the remaining areas. Near the top of the quarry are some areas where rock is the predominant cover, but, as can be seen in Photo 4, the adjacent undisturbed areas also have a lot of rock. Species I found in the reclaimed area include elderberry, Wood's rose, big tooth maple, box elder, chokecherry, raspberry, Gambel's oak, Palmer penstemon, basin wild rye, bluebunch wheatgrass, goldeneye, Louisiana sage, and Rocky Mountain penstemon.

**Conclusions and Recommendations:**

I do not know of any issues that would preclude final release. The operator needs to request release, and the Division will need to put together a findings document showing the site meets release criteria.

Inspector's Signature



Date: August 8, 2005

PBB:jb

cc: Tom Hansen, Corp. of the Presiding Bishop  
Greg Baptist, Salt Lake County

Attachment: Photos

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## ATTACHMENT

### Photographs

S/035/017, Little Cottonwood Granite Quarry, Corporation of the Presiding Bishop

Inspection Dated: July 5, 2005; Report Dated: August 8, 2005



**Photo 1.** The parking area at the base of the quarry. There was formerly a fence in front of this area.



**Photo 3.** Note the number and size of the trees and shrubs growing in the reclaimed area.



**Photo 2.** Part of the lower portion of the reclaimed area. Note the trail in the lower right portion of the photo.



**Photo 4.** The uppermost portion of the reclaimed area.